

Sacramento County Urban Runoff Diazinon and Chlorpyrifos Toxicity Control Program  
 Applicant: City of Sacramento  
 CALFED Project Number: 97-N01  
 City Agreement Number: 98-124

Budget year: 1999  
 Statement Quarter: 1

Total Estimated Cost: \$663,500  
 Funding from Federal Bay-Delta Account \$663,500

In-Kind Services: \$193,000  
 Professional Staff (\$70/hr) \$116,200  
 Technician Staff (\$30/hr) \$35,200  
 Laboratory Staff (\$60/hr) \$17,100  
 Consultant Contractor (\$100/hr) \$8,000  
 ELISA (\$30/test) \$16,500

Total Project Estimated Completion Date: 2.5 years

	(Quarterly Budget)			(FY '99 Budget)			(Total Budget)		
	Budget	Accrued Expenditures	Variance **	Budget	Accrued Expenditures	Remaining Balance **	Budget	Accrued Expenditures	Balance to Complete **
Task 1: Water Quality Monitoring - 1.5 years	\$14,600	\$13,697	\$903	\$122,580	\$13,697	\$108,883	\$184,000	\$13,697	\$170,303
Schedule: FY '99 through FY '00									
Percent Work Complete for Task 1: 8%									
1.I. Execute Tomko Contract	0	0		0	0		0	0	
1.II. EMP and QAPP Preparation	4,000	4,198		4,000	4,198		4,000	4,198	
1.III. Execute AquaScience Contract	0	0		0	0		0	0	
1.IV.A. Monthly River Sampling	400	100		1,120	100		2,000	100	
1.IV.B. Storm Runoff Sampling	400	450		1,120	450		2,000	450	
1.IV.C. Monthly Runoff Sampling	1,200	1,220		17,360	1,220		26,000	1,220	
1.IV.D. Rainfall Sampling	400	75		3,220	75		5,000	75	
1.IV.E. Arcade Creek Sampling	2,400	2,248		37,520	2,248		56,000	2,248	
1.IV.F. High-Use Site Sampling	400	200		2,520	200		4,000	200	
1.IV.G. WET Tests	400	715		13,720	715		20,000	715	
1.IV.H. Flow Through Bioassay	0	0		10,500	0		15,000	0	
1.V. PM and Reporting	5,000	4,491		31,500	4,491		50,000	4,491	
Task 2: Residential Users Education and Outreach Plan - 2.5 years	\$0	\$0	\$0	\$0	\$0	\$0	\$296,100	\$0	\$296,100
Schedule: FY '99 through FY '01									
Percent Work Complete for Task 2: 0%									
On October 23rd, the City of Sacramento began their process to hire a consulting firm to develop and implement this plan. Statements of qualifications have been received and are being reviewed by the city and county. It is anticipated that a Task Order and consultant agreement will be submitted to CALFED around mid-April 1999.									
Note: Tasks 2 and 3 may be combined in one Task Order.									
Task 3: Others (Non-residential) Users E&O Plan - 2.5 years	\$0	\$0	\$0	\$0	\$0	\$0	\$163,400	\$0	\$163,400
Schedule: FY '99 through FY '01									
Percent Work Complete for Task 3: 0%									
On October 23rd, the City of Sacramento began their process to hire a consulting firm to develop and implement this plan. Statements of qualifications have been received and are being reviewed by the city and county. It is anticipated that a Task Order and consultant agreement will be submitted to CALFED around mid-April 1999.									
Note: Tasks 2 and 3 may be combined in one Task Order.									
Task 4: Evaluation of Effects - 1 year	\$225	\$225	\$0	\$20,000	\$225	\$19,775	\$20,000	\$225	\$19,775
Schedule: FY '99									
Percent Work Complete for Task 4: 8%									
4.I. Execute Tomko Contract	0	0		0	0			0	
4.II. SOW for Arcade Creek model	25	25		10,000	25			25	
4.III. SOW for Ecological Risk Assessment	200	200		10,000	200			200	
<b>Total:</b>	<b>\$14,825</b>	<b>\$13,922</b>	<b>\$903</b>	<b>\$142,580</b>	<b>\$13,922</b>	<b>\$128,658</b>	<b>\$663,500</b>	<b>\$13,922</b>	<b>\$649,578</b>

# QUARTERLY PROGRAMMATIC REPORT

Program Manager Spencer Shepherd Phone 415-778-0999 x 24  
 Project Manager Larry Nash  
 CALFED Project # 97-N01  
 Quarter Ending 12/31/98  
 Recipient Agreement 8/28/98

		Deliverables		
Name of Deliverable		Due Date	% of Work Complete	Date Deliverable Complete
<u>Task 1 (NFWF approval on 10/8/98)</u>				
Subtask I	Draft subcontract	*	100	7/2/98
	Final subcontract	*	100	8/3/98
Subtask II	Draft EMP and QAAP	9/30/98	100	11/9/98
Subtask III	Draft subcontract	9/30/98	100	11/9/98
	Final subcontract	1 week after NFWF comments	0	-
Subtask IV	Quarterly reports	1/10/99	100	1/10/99
Subtask V	Characterization Report	03-01-00	0	-
<u>Task 4 (NFWF approval on 10/8/98)</u>				
Subtask I	Draft subcontract	*	100	7/2/98
	Final subcontract	*	100	8/3/98
Subtask II	Prepare Scope for Arcade Creek watershed	04-01-99	1	-
Subtask III	Prepare Scope for Ecological probabilistic assessment	04-01-99	1	-

\* - No due date in Task Order because final contract was submitted prior to NFWF approval of Task Orders.

## **Narrative**

### **1. Description of activities performed during the quarter, by task.**

**TASK ORDER 1:** (Approval and NTP with Task Order 1 was received from NFWF on 10/8/98).

- September 9<sup>th</sup> - Rough internal draft of EMP/QAPP (Task II of Task Order #1) was submitted to Nash and Russick for review at meeting.
- October 26<sup>th</sup> - Receipt of comments from Jeff Phipps, facilitator of CALFED workgroup assigned to oversee and review Task Order 1 monitoring activities.
- October 28<sup>th</sup> - Completed final internal draft of EMP/QAPP and draft of AQUA-Science and Sierra Environmental Sampling contracts and submitted them to City.
- November 2<sup>nd</sup> - Meeting with City regarding final internal draft of EMP/QAPP and draft contracts for AQUA-Science and Sierra Environmental.
- November 3<sup>rd</sup> - Finalized external draft EMP/QAPP based on November 2<sup>nd</sup> meeting comments.
- November 9<sup>th</sup> - Distributed external draft of EMP/QAPP and draft contracts for AquaScience and Sierra Environmental to NFWF for approval.
- December 14<sup>th</sup> - Meeting with Jeff Phipps regarding workgroup comments on EMP/QAPP.
- Initial monitoring preparations conducted in anticipation of NFWF approval of draft EMP/QAPP without major modifications included the following:
  - Developed automated samplers specifications and solicited bids from three vendors.
  - Met with Sacramento County Industrial Waste Division personnel regarding the use of their Sigma samplers for the study.
  - Conducted field assessments of potential Arcade Creek and stormwater sampling sites.
  - Mailed "permission to access property" letters to numerous residents for potential Arcade Creek sites.
  - Met with City laboratory personnel regarding ELISA requirements, and developed draft scope of work for Sierra Environmental Sampling for sampling and analytical

services.

- Met with Aqua-Science and prepared their draft scope of work.
- Prepared purchase order specifications for ELISA kits from Beacon Analytical Inc. ELISA kits purchase order has been completed and the first set of kits have been delivered.
- Completed ELISA method validation program for QA/QC.
- Assessed hydrological data for Arcade Creek. Met with USGS at AC-3 site and reviewed their hydrological data for this site. Also, discussed hydrological data with County Public Works', City Utilities', and County Alert System's personnel.
- Met with County and City managers regarding their monitoring tasks responsibilities and manpower/resource requirements.
- Contacted pesticide registrants (Novartis and Dow Agro) for assistance with the 10% GC/MS confirmation sampling.

**TASK ORDER 4:** (Approval and NTP with Task Order 1 was received from NFWF on 10/8/98).

- Initial preparations included the following:
  - Preliminary discussions held with following individuals regarding their participation on workgroup to establish scope of work for Ecological Risk Assessment / Modeling / Bioassessments for Arcade Creek.
    - Marcus P. Meier - Zeneca Ag
    - Val Connor - Regional Board
    - Tom King - Regional Board
    - Jim Harrington - DFG
    - Nick Poletika - Dow Agro Sciences
    - Dennis Kelly - Novartis
    - Candace Miller - DPR
  - Research including attendance at state sponsored workshop on bioassessments and reading of book entitled "Restoring Life in Running Waters - Better Biological Monitoring", and USGS and pesticide registrants reports on OP studies.

2. Problems and delays encountered by task.

## **TASK ORDER 1:**

- Draft of EMP/QAPP (Task II) was submitted to NFWF on 11/9/98, instead of 9/30/98 as shown in schedule in Task Order No. 1. Delay was due to not receiving Task Order approval from NFWF until 10/8/98.
- Draft of Subcontract for Aqua-Science (Task III) was submitted to NFWF on 11/9/98, instead of 9/30/98 as shown in schedule in Task Order No. 1. Delay was due to not receiving Task Order approval from NFWF until 10/8/98.
- Per the Task Order, sampling was scheduled to begin December 1998 after CALFED approval of the EMP/QAPP which was scheduled for 11/29/98. However, though CALFED's comments were discussed by Jeff Phipps and John Tomko on December 14<sup>th</sup>, no formal written comments were received by the City by the end of this Quarter. However, on January 6<sup>th</sup> CALFED's comments were emailed to the City, and are currently being assessed for incorporation into the EMP/QAPP. City appreciates these comments and believe they will lead to a better overall program. However, the funding and resource impacts of these comments will need to be estimated to determine if any additional funding from CALFED will be needed to comply with these comments.
- Also, sampling cannot begin until the subcontracts for Aqua-Science and Sierra Environmental Sampling have been reviewed/approved by Calfed and executed by the City of Sacramento. Draft contracts were submitted to NFWF on 11/9/98 and as of the end of the quarter no comments have been received. The city is awaiting comments before finalizing and executing these subcontracts.

## **TASK ORDER 4:**

- Task Order schedule had included approximately 7 months to develop scopes of work for the watershed model and ecological risk assessment. The original schedule in the Task Order had a startup date of 9/1/98. However, the actual startup date was 10/8/98 (Task Order approval from NFWF), therefore the deliverable date for the scopes of work is now 5/8/99.

### **3. Other issues or comments.**

- The CALFED workgroup (January 6<sup>th</sup> email) has raised the issue of statistically analyzing the historical and new data to determine data variances and to quantify (through a power analysis or similar process) the number of samples required to determine the effectiveness of the Education and Control program after its implementation. The existing contract does not include the services of a statistician, therefore, the recipient may be requesting additional funds to conduct this analysis. Further discussions will be held with the workgroup members regarding these analyses after the recipient has completed their

review of the workgroup's comments on the EMP/QAPP.

- This quarter's assessment of the potential to measure flows in Arcade Creek has indicated difficulties due to lack of adequate control sections, backwater effects from Natomas East Main Drain from AC-1 to the vicinity of AC-3, and dramatic flow increases in this Creek during even minor storm events. These difficulties, in conjunction with the workgroups comments on the inappropriateness of flow-based composite results in assessing ecological risks, will likely modify the sampling strategy to a time-based sampling methodology for the Arcade Creek sites. This will be clarified in the final EMP/QAPP.
- The scopes of work for the watershed model and the ecological risk assessment (ERA) will be developed by a consensus-based workgroup composed of members of the regulatory community, pesticide registrants, stormwater program members, consultants, and other interested stakeholders. Membership in this workgroup will be extended to the CALFED workgroup members who have reviewed the EMP/QAPP. The first meeting will likely be held in February, 1999. One of the first tasks of this workgroup will be to assess the data being generated by this project, and to make recommendations on any modifications necessary to obtain ecological effects data that will be required for the watershed model and/or the ERA.
- The recipient incurred significant in-kind expenses in the 1998 calendar year prior to the execution of the recipient agreement on 8/28/98 and the Task Orders on 10/8/98. These included consultant services expenses for John Tomko of approximately \$24,000. These services included Calfed administrative and contract services associated with the recipient agreement, task orders, and contract scopes-of-works (approximately \$18,000), and services associated with the development of the ELISA method validation and QA/QC process through the Monitoring and Science Subcommittee of the Urban Pesticide Committee (approximately \$6,000).

4. Projected expenses for each of the next three months:

Task Order 1

Month 1 \$ 10,000 Month 2 \$ 15,000 Month 3 \$ 15,000 Total for quarter \$ 40,000

Task Order 4

Month 1 \$ 2,000 Month 2 \$ 4,000 Month 3 \$ 4,000 Total for quarter \$ 10,000